

CLAIMS:

1. An archery accessory mounting assembly, comprising:
a first sliding mount surface for sliding engagement with a bow;
a second abutting mount surface for limiting slide distance of the first sliding mount surface, the second abutting mount surface being in a different plane than the first sliding mount surface;
a third surface opposite the first sliding mount surface having an angled portion for translating a mounting force in a first direction to a sliding force in a second direction.
2. An archery accessory mounting assembly according to claim 1 wherein the first and second surfaces are substantially orthogonal to one another.
3. An archery accessory mounting assembly according to claim 2 wherein the first and second surfaces comprise first and second plates removably attachable to one another in at least two positions.
4. An archery accessory mounting assembly according to claim 1 wherein the angled portion of the third surface comprises a tapered recess receptive of a mounting screw.
5. An archery accessory mounting assembly according to claim 4 wherein insertion of the mounting screw provides the mounting force in a first direction, and wherein the mounting screw bears against only a leading part of tapered recess.

6. An archery accessory mounting assembly according to claim 6 wherein the leading part comprises no more than half of the tapered recess.

7. An archery accessory mounting assembly according to claim 5 wherein the mounting force in a first direction provided by the mounting screw causes sliding motion of the first sliding mount surface along the bow lateral to the mounting screw.

8. An archery accessory mounting assembly according to claim 7 wherein the lateral sliding motion moves the second abutting mount surface toward and into engagement with the bow.

9. An archery accessory mounting assembly according to claim 4 wherein the tapered recess comprises a tapered portion of varying depth.

10. An archery accessory mounting assembly according to claim 9 wherein the tapered recess comprises two overlapping, generally circular recesses.

11. An archery accessory mounting assembly according to claim 1, further comprising an arrow rest, an arrow sight, an arrow stabilizer, an arrow quiver, or an arrow level.

12. An archery accessory mounting apparatus, comprising:
a first mounting surface and a second mounting surface, the first and second mounting surfaces being in different planes;
a first recess opposite of the first mounting surface, the recess comprising a taper of varying depth.
13. An archery accessory mounting apparatus according to claim 12 wherein the taper of varying depth is receptive of a fastener, and wherein the taper of varying depth comprises a shallow tapered portion such that when the fastener is inserted into the recess, the fastener bears first against the shallow tapered portion.
14. An archery accessory mounting apparatus according to claim 13, further comprising a bow coupled to the archery accessory mounting device, the bow comprising a bow recess receptive of the fastener, wherein the first recess and the bow recess comprise offset centerlines.
15. An archery accessory mounting apparatus according to claim 14 wherein the offset centerlines move closer to one another as the fastener is threaded into the bow recess.
16. An archery accessory mounting apparatus according to claim 15 wherein sliding movement between the bow and the archery accessory mounting devices is limited by the second surface bearing against a bow surface as the fastener is threaded into the bow recess.

17. An archery accessory mounting apparatus according to claim 12 wherein the different planes are substantially orthogonal to one another.

18. An archery accessory mounting apparatus according to claim 12, further comprising an angled leg having an adjustable cavity receptive of an archery accessory.

19. An archery accessory mounting apparatus according to claim 18, further comprising an arrow rest, a bow sight, an arrow stabilizer, an arrow quiver, or a level secured within the adjustable cavity.

20. An archery accessory mounting apparatus according to claim 12 wherein the first recess is substantially circular.

21. An archery accessory mounting apparatus according to claim 20, further comprising a second substantially circular recess disposed opposite of the first surface having a second taper of varying depth.

22. An archery accessory mounting apparatus according to claim 21 wherein the first and second substantially circular recesses overlap.

23. An archery accessory mounting device, comprising:
an archery accessory having a first mounting surface and a second mounting surface,
the second mounting surface being substantially orthogonal to the first mounting surface;
a tapered recess opposite of the first mounting surface, the tapered recess defining a
first outer edge having a first center, and a second inner edge having a second center, wherein the
first and second centers are not coincident.

24. An archery accessory mounting device according to claim 23 wherein the tapered
recess is tapered to varying depths.

25. An archery accessory mounting device according to claim 24 wherein the tapered
recess is tapered at approximately 20-75 degrees.

26. An archery accessory mounting device according to claim 25 wherein the tapered
recess is tapered at approximately 45 degrees.

27. An archery accessory mounting device according to claim 23 wherein the tapered
recess comprises a first tapered surface portion and a second tapered surface portion, the first tapered
surface portion having a smaller surface area than the second tapered surface portion per radial
degree.

28. An archery accessory mounting device according to claim 27 wherein the first and
second surface portions are opposite of one another.

29. An archery accessory mounting device according to claim 23 wherein surface area per radial degree of the tapered recess is continuously variable.

30. An archery accessory mounting device according to claim 23 wherein the tapered recess is receptive of a fastening member.

31. An archery accessory mounting device according to claim 30, further comprising an angled leg having an adjustable cavity.

32. An archery accessory mounting device according to claim 23 wherein the archery accessory further comprises an arrow rest, a bow sight, an arrow stabilizer, an arrow quiver, or a level.

33. An archery accessory mounting device according to claim 23 wherein the second mounting surface comprises a removable plate.

34. An archery accessory mounting device according to claim 33 wherein the first surface comprises a plurality of holes receptive of fasteners, the plurality of holes enabling attachment of the removable plate to the first surface in at least two positions.

35. An archery accessory mounting device according to claim 23 wherein the tapered recess comprises two overlapping circular shapes, each of the two overlapping circular shapes being receptive of a mounting fastener attaching the mounting device to a bow in different positions.

36. An archery apparatus comprising:
a bow having a first recess, the first recess having a first center line;
an accessory mount having a second recess, the second recess having a second center line;
a fastener extending through the first and second recesses and attaching the accessory mount to the bow;
wherein the first and second center lines are not coincident.
37. An archery apparatus according to claim 36 wherein the fastener comprises a third centerline coincident with the first center line.
38. An archery apparatus according to claim 36 wherein the second recess is tapered to various depths.
39. An archery apparatus according to claim 36 wherein the accessory mount further comprises an archery accessory having an angled leg and an adjustable cavity receptive of an accessory component.
40. An archery apparatus according to claim 39, further comprising an arrow rest, an arrow stabilizer, an arrow quiver, or a bow sight secured within the adjustable cavity.

41. An archery accessory mounting device, comprising:

an archery accessory having a first surface, a second surface, and a third surface, the second surface being substantially orthogonal to the first surface and the third surface being opposite of the first surface;

a tapered recess disposed in the third surface shaped such that when a mounting force is applied to the tapered recess and normal to the third surface, at least one orthogonal aligning force is transmitted to the mounting device, thereby positioning the first and second surfaces in a precise repeatable position adjacent to a bow.

42. An archery accessory mounting device of claim 41, further comprising at least one auxiliary tapered recess disposed in the third surface such that when a mounting force is applied to the at least one auxiliary tapered recess and normal to the third surface, at least one orthogonal aligning force is transmitted to the mounting device, thereby positioning the first and second surfaces in a different particular precise repeatable position corresponding to a location of the at least one auxiliary tapered recesses.

43. An archery accessory mounting device according to claim 41 wherein the first and third surfaces are substantially parallel to one another.

44. A method for securing an accessory to a bow, comprising:
positioning an accessory adjacent to a bow;
inserting a fastener through a tapered recess of the accessory and into a recess in the bow;
engaging a surface of the fastener with a surface of the tapered recess;
applying an orthogonal aligning force to the accessory by the engaging of the surface of the fastener with the surface of the tapered recess, thereby positioning the accessory in a precise repeatable position on the bow.

45. A method for securing an accessory to a bow according to claim 44 wherein the positioning an accessory adjacent to a bow further comprises approximately aligning the tapered recess on the accessory with the mounting recess on the bow.

46. A method for securing an accessory to a bow according to claim 44 wherein the inserting a fastener through a tapered recess of the accessory and into a recess on the bow further comprises aligning the fastener with a centerline of the recess in the bow, but not aligning the fastener with a centerline of the tapered recess of the accessory.

47. A method for securing an accessory to a bow according to claim 44 wherein the accessory comprises a first mounting surface, a second mounting surface substantially orthogonal to the first mounting surface, and a third surface opposite of the first mounting surface, and wherein the engaging a surface of the fastener with a surface of the tapered recess further comprises screwing the fastener into the recess in the bow so as to produce a mounting force normal to the third surface of the accessory.

48. A method for securing an accessory to a bow according to claim 47 wherein the mounting force normal to the third surface is at least partially transduced by the fastener and the tapered recess into the orthogonal aligning force, the aligning force moving the second surface into engagement with a mating bow surface at the precise repeatable position.